

What is claimed is:

1. A rear casing arrangement for a magnetic drive pump,
said magnetic drive pump comprising:

a front casing having an intake port directed in the
longitudinal axis direction and a discharge port directed in the
radial direction,

a rear casing defining an inner pump chamber in cooperation
with the front casing,

an impeller disposed in the pump chamber,

a rotor for being rotated in unison with the impeller and
having a driven magnet,

rotor support means for rotatably supporting the rotor, and

a drive magnet disposed on the outside of the rear casing such
as to face the driven magnet on the rotor via the rear casing and
magnetically coupled to the driven magnet for causing rotation of
the rotor in unison with the impeller,

whereby a pump supply fluid such as a chemical fluid or a
semiconductor processing fluid is caused to flow into the pump
chamber from the intake port and out of the pump chamber from the
discharge part for execution of the pump operation,

said rear casing including:

a flange part mounted on the front casing,

a cylindrical barrel part interposed between the rotor and
the drive magnet, said barrel part having a front end integral with
the flange part and a rear end, and

a rear end part integral with the rear end of the barrel part and having a closed rear end,

said rear casing having a reinforcing belt-like ring member woundly fitted on the outer periphery of a cylindrical barrel part of the rear casing, said ring member having a width smaller than the length of the cylindrical barrel part of the rear casing.

2. The rear casing arrangement for the magnetic drive pump according to claim 1, wherein said rear casing is formed from a synthetic resin, and the reinforcing belt-like ring member is formed from a material constituted by a combination of a thermoplastic resin and fibrous reinforcing material.

3. The rear casing arrangement for the magnetic drive pump according to claim 1, wherein said reinforcing belt-like ring member is disposed in a region, in which the drive magnet and the driven magnet of the rotor face each other.

4. A rear casing arrangement for a magnetic drive pump, said magnetic drive pump comprising:

a front casing having an intake port directed in the longitudinal axis direction and a discharge port directed in the radial direction,

a rear casing defining an inner pump chamber in cooperation with the front casing,

an impeller disposed in the pump chamber,

a rotor for being rotated in unison with the impeller and having a driven magnet,

rotor support means for rotatably supporting the rotor, and

a drive magnet disposed on the outside of the rear casing such as to face the driven magnet on the rotor via the rear casing and magnetically coupled to the driven magnet for causing rotation of the rotor in unison with the impeller,

whereby a pump supply fluid such as a chemical fluid or a semiconductor processing fluid is caused to flow into the pump chamber from the intake port and out of the pump chamber from the discharge port for execution of the pump operation, said rear casing including:

an inner casing member having a flange part mounted on the front casing, a cylindrical barrel part interposed between the rotor and the drive magnet, said barrel part having a front end integral with the flange part and a rear end, and a rear end part integral with the rear end of the barrel part and having a closed rear end,

said inner casing member being to be in direct contact with the pump supply fluid in the pump chamber, and

a casing cover member corresponding in shape to the inner casing member and having a flange part, a cylindrical barrel part and a rear end part,

said casing cover member being fitted on the outer periphery of the inner casing member,

said rear casing having a reinforcing belt-like ring member

woundly fitted on the outer periphery of the cylindrical barrel part of the inner casing member between the inner casing member and the casing cover member, said ring member having a width smaller than the length of the cylindrical barrel part of the inner casing member.

5. The rear casing arrangement for the magnetic drive pump according to claim 4, wherein said inner casing member is formed from a thermoplastic resin, the casing cover member is formed from a thermoplastic resin or a material constituted by a combination of the thermoplastic resin and a fibrous reinforcing material, and the reinforcing belt-like ring member is formed from a material constituted by a combination of a thermoplastic resin and a fibrous reinforcing material.

6. The rear casing arrangement for the magnetic drive pump according to claim 4, wherein said reinforcing belt-like ring member is disposed in a region, in which the drive magnet and the driven magnet of the rotor face each other.